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INVENTOR'S PROPOSED CHANGES TO PROPOSED**EXAMINER'S AMENDMENT**

- 45.(new) A wave and tide actuated submersible pump for use in an open body of water, said wave and tide actuated submersible pump comprising,
- a pump cylinder having an open top end and a closed bottom end, ~~the bottom end attached to a lower plate for securing said pump to the floor of the~~ said cylinder is affixed to a structure located in an open body of water, an at least one inlet check valve and an at least one outlet check valve connected to openings in the pump cylinder near the lower plate closed end, said inlet check valve allowing for the intake of water from the body of water and said outlet check valve controlling the flow of water from the pump to a remote location,
- a weighted piston vertically reciprocally movable within the pump cylinder and forming a pump chamber defined by said cylinder, said weighted piston and said lower plate closed end,
- a buoy connected to the weighted piston by a flexible connector for driving the weighted piston on an upward stroke in response to wave action, said weighted piston being driven in a downward stroke under force of gravity,

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a means for restricting confining the upward stroke of the weighted piston within the cylinder mounted adjacent to the open top end of the pump cylinder,

a mooring guide and wear ring mounted to the top open end of the pump cylinder, said a flexible connector passing through the top of said cylinder said mooring guide and wear ring and being attached to the top of the weighted piston at a first end and to a lifting eye of the buoy at a second end, and

said weighted piston including an air vent passageway, a check valve ball and an air vent chamber for allowing air entrapped within the pump chamber to vent through the air vent passageway and out the open top of the pump cylinder.

46. (new) The wave actuated submersible pump of claim 45 wherein said flexible connector is a chain.

47. (new) The wave actuated submersible pump of claim 45 wherein said flexible connector is a cable.

48. (new) The wave actuated submersible pump of claim 45 wherein said means for restricting the upward stroke of the weighted piston is a plurality of stop pins which are securely attached and pass through openings adjacent said open top end of the pump cylinder.

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49. (new) The wave actuated submersible pump of claim 45 wherein said lower plate ~~is a bottom plate~~ end is suitable for imbedding the pump cylinder in the floor of the open body of water.

50. (new) The wave actuated submersible pump of claim 45 wherein said lower plate enclosed end is a bottom flange plate for securing the pump cylinder to submerged foundations at the floor of the open body of water.

51. (new) The wave actuated submersible pump of claim 45 wherein said weighted piston includes sealing rings to provide a seal against the pump cylinder.

52. (new) The wave actuated submersible pump of claim 45 wherein said buoy includes a mooring eye used to stabilize the direction of travel of the buoy.

53. (new) The wave actuated submersible pump of claim 45 wherein the water pumped by the submersible pump is delivered from the outlet check valve to a hydro-electric power plant including a reservoir, surge tank, which stores the pumped water and then delivers it to hydro-electric generators. --

54. (new) The wave actuated submersible pump of claim 45 wherein said flexible connector is flexible shaft.

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55. (new) The wave actuated submersible pump of claim 45 wherein said flexible connector is a rope.

56. (new) The wave actuated submersible pump of claim 45 wherein a mooring guide and wear ring mounted to the top open end of the pump cylinder, said flexible connector passing through the top of said cylinder said mooring guide and wear ring and being attached to the top of the weighted piston at a first end and to a lifting eye of the buoy at a second end.

57. (new) The wave actuated submersible pump of claim 45 wherein said weighted piston includes an air vent passageway, a check valve ball and an air vent chamber for allowing air entrapped within the pump chamber to vent through the air vent passageway and out the open top of the pump cylinder.

58. (new) The wave actuated submersible pump of claim 45 wherein to pump contaminated fluid into, and the formation of, evaporation ponds or large bodies of water for mineral and chemical extraction, refinement and toxic waste removal from contaminated fluids.

59. (new) The wave actuated submersible pump of claim 45 wherein by pumping salt water, create large shallow bodies of water and seas for the

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evaporation of said water thus forming moisture laden clouds where prevailing winds will blow these clouds to natural and man made barriers causing rain to fall, creating new pasture and farmland whilst moderating the earth's climate: said additional moisture will cleanse the atmosphere and the whole cycle shall act as a radiator cooling the earth.

60. (new) The wave actuated submersible pump of claim 45 wherein to desalinate water using pumps as a source of energy to extract fresh water from the saltwater.

61. (new) The wave actuated submersible pump of claim 45 wherein to pump seawater to a levied reservoir to raise sea animals and organisms for the harvesting of said sea animals and organisms.

62. (new) The wave actuated submersible pump of claim 45 wherein by to claim land from the sea by using these pumps with their suctions within the levied areas, to pump water out of said levied area.

63. (new) The wave actuated submersible pump of claim 45 wherein by to clean up oil spills and other contaminants by pumping contaminants into a confined protected area.